



EINAT1-1D.ST25.txt
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SKALITER, Rami

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<141> 2002-03-06

<150> US 09/604,978

<151> 2000-06-28

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<151> 1999-08-21

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ggattgttca	catatgtttt
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aaccactcac	cccacctcac
agaggtgacc	gaaccagga
cttcagtc	gctgggctag
	120
ccctgcatcc	atgagctgtg
tgccctcagg	cccttgctta
agctcctacg	tagacgtaga
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tgctctgttt	ttatttaagg
atttgaaaac	cagtcatggg
caccatgatt	taacacaaaa
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atttcctgaa	aataattgtt
tgttcttctt	tcaaggaaaa
	300

EINAT1-1D.ST25.txt

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ggtatacaat tcatgtttct tatgcatgaa attaatthtc tttccctctg tggagtgggg	480
ctatatthta gacaggthtt tattcgtgga agctcttcac tgagagcaat atthgaagtg	540
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tgtcatataa tgtcttgagc agttaggaca gggtgagatg tgacataaga aaaagcagga	660
tatgtatgta atggatagga atgtcactth acactgttht gtatthtctc tgtccctaag	720
acttggtgta gtgccaagca tacagthgtt atctaathth tghtgatgga aagtgtatgg	780
atthagtata ccttaagtga atgggtgtagc thgtgtaaca atgtacccta tctccctthc	840
cctctcactt thtctthcaa atcgcataat aaaccacag attagatcag cthtctgggc	900
ggcgactthc aaaagtacta aatgatcacc gcacagaagc cagccctthg aaaccctcac	960
tgtthtactt tgcgtthctc cacttgactg tccctgtgtc ctctgtctct ccaaggaagg	1020
tctaaactcc tacgtctthc gttaacaagc agthtaathth ttaagaaatc ttaactthtc	1080
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cctthcctthg gtcaccatta tagthgcaac ctacctctat tgaatcactt atthgtactgt	1860
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<210> 6
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 <212> DNA
 <213> Rattus norvegicus

<400> 6	
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EINAT1-1D.ST25.txt

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ctggcccagc tgaacccgga gtcctccctg ttcattcttg cctccaagac ctttactacc	660
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aggaggt	1987

EINAT1-1D.ST25.txt

<210> 7
 <211> 464
 <212> PRT
 <213> Rattus norvegicus

<400> 7

Met Gly Arg Gly Trp Gly Leu Leu Val Gly Leu Leu Gly Val Val Trp
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Leu Leu Arg Ser Gly Gln Gly Glu Glu Gln Gln Gln Glu Thr Ala Ala
 20 25 30

Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys
 35 40 45

Asp Val Glu Thr Ile Asp Lys Phe Asn Asn Tyr Arg Leu Phe Pro Arg
 50 55 60

Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn
 65 70 75 80

Leu Arg Lys Pro Cys Pro Phe Trp Asn Asp Ile Asn Gln Cys Gly Arg
 85 90 95

Arg Asp Cys Ala Val Lys Pro Cys His Ser Asp Glu Val Pro Asp Gly
 100 105 110

Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Lys Glu Ala Asn Leu Leu Glu
 115 120 125

Glu Cys Glu Pro Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu Ser
 130 135 140

Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp Ser
 145 150 155 160

Ser Asp Ser Phe Cys Glu Val Asp Asp Ile Gln Ser Pro Asp Ala Glu
 165 170 175

Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys Gly
 180 185 190

Pro Asp Ala Trp Arg Ile Trp Ser Val Ile Tyr Glu Glu Asn Cys Phe
 195 200 205

Lys Pro Gln Thr Phe Gln Arg Pro Leu Ala Ser Gly Gln Gly Lys His
 210 215 220

Lys Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu Cys Val Glu Lys
 225 230 235 240

Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala Ser Ile Asn Val

245

255

His Leu Ser Ala Arg Tyr Leu Leu Gln Asp Asn Trp Leu Glu Lys Lys
260 265 270

Trp Gly His Asn Val Thr Glu Phe Gln Gln Arg Phe Asp Gly Val Leu
275 280 285

Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu Tyr Phe Leu Tyr
290 295 300

Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro Phe Phe Glu Arg
305 310 315 320

Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Val Gln Asp Val Glu Asn
325 330 335

Lys Glu Leu Leu Leu Glu Ile Leu His Glu Val Lys Ser Phe Pro Leu
340 345 350

His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys Asn Glu Ala His
355 360 365

Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn Ile Ser Arg Ile
370 375 380

Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp Gly Lys Leu Gln
385 390 395 400

Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe Ser Glu Lys Leu
405 410 415

Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu Phe Gln Leu Thr
420 425 430

Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly Arg Ile Ser Thr
435 440 445

Ser Val Arg Glu Leu Glu Asn Phe Arg His Leu Leu Gln Asn Val His
450 455 460

<210> 8
<211> 558
<212> PRT
<213> Rattus norvegicus

<400> 8

Met Ala Ala Leu Thr Arg Asp Pro Gln Phe Gln Lys Leu Gln Gln Trp
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Tyr Arg Glu His Arg Ser Glu Leu Asn Leu Arg Arg Leu Phe Asp Ala
20 25 30

EINAT1-1D.ST25.txt

Asn Lys Asp Arg Phe Asn His Phe Ser Leu Thr Leu Asn Thr Asn His
 35 40 45
 Gly His Ile Leu Val Asp Tyr Ser Lys Asn Leu Val Thr Glu Asp Val
 50 55 60
 Met Arg Met Leu Val Asp Leu Ala Lys Ser Arg Gly Val Glu Ala Ala
 65 70 75 80
 Arg Glu Arg Met Phe Asn Gly Glu Lys Ile Asn Tyr Thr Glu Gly Arg
 85 90 95
 Ala Val Leu His Val Ala Leu Arg Asn Arg Ser Asn Thr Pro Ile Leu
 100 105 110
 Val Asp Gly Lys Asp Val Met Pro Glu Val Asn Lys Val Leu Asp Lys
 115 120 125
 Met Lys Ser Phe Cys Gln Arg Val Arg Ser Gly Asp Trp Lys Gly Tyr
 130 135 140
 Thr Gly Lys Thr Ile Thr Asp Val Ile Asn Ile Gly Ile Val Gly Ser
 145 150 155 160
 Asp Leu Gly Pro Leu Met Val Thr Glu Ala Leu Lys Pro Tyr Ser Ser
 165 170 175
 Gly Gly Pro Arg Val Trp Tyr Val Ser Asn Ile Asp Gly Thr His Ile
 180 185 190
 Ala Lys Thr Leu Ala Gln Leu Asn Pro Glu Ser Ser Leu Phe Ile Ile
 195 200 205
 Ala Ser Lys Thr Phe Thr Thr Gln Glu Thr Ile Thr Asn Ala Glu Thr
 210 215 220
 Ala Lys Glu Trp Phe Leu Gln Ala Ala Lys Asp Pro Ser Ala Val Ala
 225 230 235 240
 Lys His Phe Val Ala Leu Ser Thr Asn Thr Thr Lys Val Lys Glu Phe
 245 250 255
 Gly Ile Asp Pro Gln Asn Met Phe Glu Phe Trp Asp Trp Val Gly Gly
 260 265 270
 Arg Tyr Ser Leu Trp Ser Ala Ile Gly Leu Ser Ile Ala Leu His Val
 275 280 285
 Gly Phe Asp Asn Phe Glu Gln Leu Leu Ser Gly Ala His Trp Met Asp
 290 295 300

EINAT1-1D.ST25.txt

Gln His Phe Arg Thr Thr Pro Leu Glu Lys Asn Ala Pro Val Leu Leu
305 310 315 320

Ala Leu Leu Gly Ile Trp Tyr Ile Asn Cys Phe Gly Cys Glu Thr His
325 330 335

Ala Met Leu Pro Tyr Asp Gln Tyr Leu His Arg Phe Ala Ala Tyr Phe
340 345 350

Gln Gln Gly Asp Met Glu Ser Asn Gly Lys Tyr Ile Thr Lys Ser Gly
355 360 365

Thr Arg Val Asp His Gln Thr Gly Pro Ile Val Trp Gly Glu Pro Gly
370 375 380

Thr Asn Gly Gln His Ala Phe Tyr Gln Leu Ile His Gln Gly Thr Lys
385 390 395 400

Met Ile Pro Cys Asp Phe Leu Ile Pro Val Gln Thr Gln His Pro Ile
405 410 415

Arg Lys Gly Leu His His Lys Ile Leu Leu Ala Asn Phe Leu Ala Gln
420 425 430

Thr Glu Ala Leu Met Arg Gly Lys Ser Thr Glu Glu Ala Arg Lys Glu
435 440 445

Leu Gln Ala Ala Gly Lys Ser Pro Glu Asp Leu Glu Arg Leu Leu Pro
450 455 460

His Lys Val Phe Glu Gly Asn Arg Pro Thr Asn Ser Ile Val Phe Thr
465 470 475 480

Lys Leu Thr Pro Phe Met Leu Gly Ala Leu Val Ala Met Tyr Glu His
485 490 495

Lys Ile Phe Val Gln Gly Ile Ile Trp Asp Ile Asn Ser Phe Asp Gln
500 505 510

Trp Gly Val Glu Leu Gly Lys Gln Leu Ala Lys Lys Ile Glu Pro Glu
515 520 525

Leu Asp Gly Ser Ala Gln Val Thr Ser His Asp Ala Ser Thr Asn Gly
530 535 540

Leu Ile Asn Phe Ile Lys Gln Gln Arg Glu Ala Arg Val Gln
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<210> 9
<211> 229

EINAT1-1D.ST25.txt

<212> PRT

<213> Rattus norvegicus

<400> 9

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Ser Ser Arg Thr Pro Ala Ala Asp Arg Pro Pro Arg Ser Ala Trp Gly
20 25 30

Ser Ala Ala Arg Glu Glu Gly Leu Asp Arg Cys Ala Ser Leu Glu Ser
35 40 45

Ser Asp Cys Glu Ser Leu Asp Ser Ser Asn Ser Gly Phe Gly Pro Glu
50 55 60

Glu Asp Ser Ser Tyr Leu Asp Gly Val Ser Leu Pro Asp Phe Glu Leu
65 70 75 80

Leu Ser Asp Pro Glu Asp Glu His Leu Cys Ala Asn Leu Met Gln Leu
85 90 95

Leu Gln Glu Ser Leu Ser Gln Ala Arg Leu Gly Ser Arg Arg Pro Ala
100 105 110

Arg Leu Leu Met Pro Ser Gln Leu Leu Ser Gln Val Gly Lys Glu Leu
115 120 125

Leu Arg Leu Ala Tyr Ser Glu Pro Cys Gly Leu Arg Gly Ala Leu Leu
130 135 140

Asp Val Cys Val Glu Gln Gly Lys Ser Cys His Ser Val Ala Gln Leu
145 150 155 160

Ala Leu Asp Pro Ser Leu Val Pro Thr Phe Gln Leu Thr Leu Val Leu
165 170 175

Arg Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly Leu Leu Ser Ser
180 185 190

Ala Asn Ser Ser Leu Val Pro Gly Tyr Ser Gln Ser Leu Thr Leu Ser
195 200 205

Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser Ser Glu Gln Leu
210 215 220

Leu Ile Glu Glu Cys
225

<210> 10

<211> 232

<212> PRT

<213> Homo sapiens

<400> 10

Met Pro Ser Leu Trp Asp Arg Phe Ser Ser Ser Thr Ser Ser
 1 5 10 15

Pro Ser Ser Leu Pro Arg Thr Pro Thr Pro Asp Arg Pro Pro Arg Ser
 20 25 30

Ala Trp Gly Ser Ala Thr Arg Glu Glu Gly Phe Asp Arg Ser Thr Ser
 35 40 45

Leu Glu Ser Ser Asp Cys Glu Ser Leu Asp Ser Ser Asn Ser Gly Phe
 50 55 60

Gly Pro Glu Glu Asp Thr Ala Tyr Leu Asp Gly Val Ser Leu Pro Asp
 65 70 75 80

Phe Glu Leu Leu Ser Asp Pro Glu Asp Glu His Leu Cys Ala Asn Leu
 85 90 95

Met Gln Leu Leu Gln Glu Ser Leu Ala Gln Ala Arg Leu Gly Ser Arg
 100 105 110

Arg Pro Ala Arg Leu Leu Met Pro Ser Gln Leu Val Ser Gln Val Gly
 115 120 125

Lys Glu Leu Leu Arg Leu Ala Tyr Ser Glu Pro Cys Gly Leu Arg Gly
 130 135 140

Ala Leu Leu Asp Val Cys Val Glu Gln Gly Lys Ser Cys His Ser Val
 145 150 155 160

Gly Gln Leu Ala Leu Asp Pro Ser Leu Val Pro Thr Phe Gln Leu Thr
 165 170 175

Leu Val Leu Arg Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly Leu
 180 185 190

Phe Ser Ser Ala Asn Ser Pro Phe Leu Pro Gly Phe Ser Gln Ser Leu
 195 200 205

Thr Leu Ser Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser Ser
 210 215 220

Glu Gln Leu Leu Ile Glu Glu Cys
 225 230

<210> 11

<211> 864

<212> PRT

<213> Rattus norvegicus

EINAT1-1D.ST25.txt

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<220>
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 <223> Xaa is unknown

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 <223> Xaa is unknown

<220>
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 <222> (599)..(599)
 <223> Xaa is unknown

<220>
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 <222> (608)..(609)
 <223> Xaa is unknown

<400> 11

Met Ala Met Pro Leu Ser Arg Lys Asp Pro Thr Ser Asn Ala Ala Asp
 1 5 10 15

Gly Pro Leu Leu Lys Ala Ser Val Ser Ser Pro Val Lys Ala Ser Ser
 20 25 30

Ser Pro Val Arg Ser Ala Pro Phe Ile Thr Arg Asn Cys Glu Val Gln
 35 40 45

Ser Pro Glu Leu Leu His Lys Thr Val Ser Pro Leu Lys Thr Glu Val
 50 55 60

EINAT1-1D.ST25.txt

Leu Lys Pro Cys Glu Lys Pro Thr Leu Ser Gln Ala Leu Gln Pro Lys
 65 70 75 80
 Glu Gly Ala Asn Lys Glu Val Cys Leu Gln Ser Gln Ser Lys Asp Lys
 85 90 95
 Leu Ala Thr Pro Gly Gly Arg Gly Ile Lys Pro Phe Leu Glu Arg Phe
 100 105 110
 Gly Glu Arg Cys Gln Glu His Ser Lys Glu Ser Pro Thr Cys Arg Ala
 115 120 125
 Phe His Arg Thr Pro Asn Ile Thr Pro Asn Thr Lys Ala Ile Gln Glu
 130 135 140
 Arg Leu Phe Lys Gln Asn Thr Cys Phe Ile Tyr Tyr Pro Asn Leu Ala
 145 150 155 160
 Gln Gln Leu Lys Gln Glu Arg Glu Lys Glu Leu Ala Cys Leu Arg Gly
 165 170 175
 Arg Phe Asp Lys Gly Ser Leu Trp Ser Ala Glu Lys Asp Glu Lys Ser
 180 185 190
 Arg Ser Lys Gln Leu Glu Thr Asn Arg Lys Phe Thr Val Arg Thr Leu
 195 200 205
 Pro Ser Arg Asn Thr Lys Leu Ser Gln Gly Thr Pro Ser Thr Ser Val
 210 215 220
 Ser Asp Lys Val Ala Glu Thr Pro Thr Ala Val Lys Ile Ser Gly Thr
 225 230 235 240
 Glu Pro Ala Gly Ser Thr Glu Ser Glu Met Thr Lys Ser Ser Pro Leu
 245 250 255
 Lys Ile Thr Leu Phe Leu Glu Glu Glu Lys Ser Leu Lys Val Ala Ser
 260 265 270
 Asp Pro Glu Val Glu Gln Lys Thr Glu Ala Val His Glu Val Glu Met
 275 280 285
 Ser Val Asp Asp Glu Asp Ile Asn Ser Ser Lys Ser Leu Thr Thr Ser
 290 295 300
 Ser Val Xaa Ser Leu Xaa Glu Xaa Gly Thr Gly Xaa Trp Lys Arg Xaa
 305 310 315 320
 Lys Glu Glu Met Asp Gln Val Gly Asn Gly Lys Gln Arg Gly Ala Gly
 325 330 335

EINAT1-1D.ST25.txt

Arg Cys Ala Glu Tyr Leu Leu Asn Xaa Xaa Thr Xaa Ser Arg Trp Leu
340 345 350

Arg Arg Phe Gly Val Val Asn Leu Gln Asn Val Ile Ser Ser Pro Glu
355 360 365

Leu Glu Leu Arg Asp Tyr Ser Leu Ser Ala Pro Ser Pro Lys Pro Gly
370 375 380

Lys Phe Gln Arg Thr Arg Val Pro Arg Ala Glu Ser Gly Asp Ser Leu
385 390 395 400

Ser Ser Glu Asp Arg Asp Leu Leu Tyr Ser Ile Asp Ala Tyr Arg Ser
405 410 415

Gln Arg Phe Lys Glu Thr Glu Arg Pro Ser Ile Lys Gln Val Ile Val
420 425 430

Arg Lys Glu Asp Val Thr Ser Lys Leu Ser Glu Lys Asn Gly Val Phe
435 440 445

Ser Gly Gln Val Asn Ile Lys Gln Lys Met Gln Glu Leu Asn Asn Asp
450 455 460

Ile Asn Leu Gln Gln Thr Val Ile Tyr Gln Ala Ser Gln Ala Leu Asn
465 470 475 480

Cys Cys Val Asp Glu Glu His Gly Lys Gly Ser Leu Glu Glu Ala Glu
485 490 495

Ala Glu Arg Leu Phe Leu Xaa Ala Thr Glu Lys Arg Ala Leu Leu Ile
500 505 510

Asp Glu Leu Asn Lys Leu Lys Ser Glu Gly Pro Gln Arg Arg Asn Lys
515 520 525

Thr Ala Val Ala Ser Gln Ser Gly Phe Ala Pro Cys Lys Gly Ser Val
530 535 540

Thr Leu Ser Glu Ile Cys Leu Pro Leu Lys Ala Glu Phe Val Cys Ser
545 550 555 560

Thr Ala Gln Lys Pro Glu Ser Ser Asn Tyr Tyr Tyr Leu Ile Met Leu
565 570 575

Lys Ala Gly Ala Glu Gln Met Val Ala Thr Pro Leu Ala Ser Thr Ala
580 585 590

Thr Leu Leu Val Val Met Xaa Leu Thr Phe Pro Thr Thr Leu Pro Xaa
595 600 605

EINAT1-1D.ST25.txt

Xaa Asp Val Ser Asn Asp Phe Glu Ile Asn Val Glu Val Tyr Ser Leu
610 615 620

Val Gln Lys Lys Asp Ser Leu Arg Pro Glu Lys Lys Lys Lys Ala Ser
625 630 635 640

Lys Phe Lys Ala Ile Thr Pro Lys Arg Leu Leu Thr Ser Ile Thr Ser
645 650 655

Lys Ser Ser Leu His Ala Ser Val Met Ala Ser Pro Gly Gly Leu Ser
660 665 670

Ala Val Arg Thr Ser Asn Phe Thr Leu Val Gly Ser His Thr Leu Ser
675 680 685

Leu Ser Ser Val Gly Asp Thr Lys Phe Ala Leu Asp Lys Val Pro Phe
690 695 700

Leu Ser Pro Leu Glu Gly His Ile Cys Leu Lys Ile Ser Cys Gln Val
705 710 715 720

Asn Ser Ala Val Glu Glu Lys Gly Phe Leu Thr Ile Phe Glu Asp Val
725 730 735

Ser Gly Phe Gly Ala Trp His Arg Arg Trp Cys Val Leu Ser Gly Asn
740 745 750

Cys Ile Ser Tyr Trp Thr Tyr Pro Asp Asp Glu Arg Arg Lys Asn Pro
755 760 765

Ile Gly Arg Ile Asn Leu Ala Asn Cys Ile Ser His Gln Ile Glu Pro
770 775 780

Ala Asn Arg Glu Phe Cys Ala Arg Arg Asn Thr Leu Glu Leu Ile Thr
785 790 795 800

Val Arg Pro Gln Arg Glu Asp Asp Arg Glu Thr Leu Val Ser His Val
805 810 815

Glu Thr His Ser Val Ser Pro Lys Asn Trp Leu Ser Ala Asp Thr Lys
820 825 830

Glu Glu Arg Asp Leu Trp Met Gln Lys Leu Asn Gln Val Ile Val Asp
835 840 845

Ile Arg Leu Trp Gln Pro Asp Ala Cys Tyr Lys Pro Val Gly Lys Pro
850 855 860

<210> 12
<211> 534

EINAT1-1D.ST25.txt

<212> DNA
<213> Homo sapiens

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cccggagtcc attggccaag gcggggccaca ctcccgggtc tggattgggt cgtggcgag 180
agaaggcgtg gcctcgccgc gctagtcctt ataggctgct ccgcgctggt gctagggcgc 240
agcaggccaa gggggaggtg cgagcggtga cctgggacgg gtctgggcgg ctctcggtgg 300
ttggcacggg ttcgcacacc cattcaagcg gcaggacgca cttgtcttag cagttctcgc 360
tgaccgcgt agctggtgag tgtcccttct gtgtgtgggt cctagagctc gcggtctggt 420
ctggtctggt cccagactg acgcctggtc ggtccccctc ttgtcttaca gcggttcta 480
cgctccggca ctctgagttc atcagcaaac gccctggcgt ctgtcctcac catg 534

<210> 13
<211> 532
<212> DNA
<213> Mus sp.

<400> 13
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actcccgggt ctcgattggg ctgcgacctg gagggggcgt ggcctcgccg ggagagccct 180
tataggctgc tgctcgctgg tgctagggat cgcagcaggc aggggggagg tgcgagaggg 240
ttcgaaggga caggtccggg cagcgatcgg gggttggcac cagttcgctc acccttcgag 300
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